STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _09/694,758_

Source: _IFWJl6_

Date Processed by STIC: _3/29/07_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, **PLEASE** USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
   http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

IFW16

RAW SEQUENCE LISTING   DATE: 03/29/2007
PATENT APPLICATION: US/09/694,758   TIME: 10:28:38

Input Set : A:\-47-1.APP
Output Set: N:\CRF4\03292007\I694758.raw

```
 3 <110> APPLICANT: Chakravarti, Shukti
 4        Case Western Reserve University
 6 <120> TITLE OF INVENTION: Gene Expression Profiling of Inflammatory Bowel Disease
 8 <130> FILE REFERENCE: 021825-004710US
10 <140> CURRENT APPLICATION NUMBER: US 09/694,758
11 <141> CURRENT FILING DATE: 2000-10-23
13 <150> PRIOR APPLICATION NUMBER: US 60/160,835
14 <151> PRIOR FILING DATE: 1999-10-21
16 <160> NUMBER OF SEQ ID NOS: 145
18 <170> SOFTWARE: PatentIn Ver. 2.1
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 1560
22 <212> TYPE: DNA
23 <213> ORGANISM: Homo sapiens
25 <220> FEATURE:
26 <223> OTHER INFORMATION: monocyte-derived neutrophil chemotactic factor
27        (MDNCF); interleukin 8 (IL-8) precursor; small
28        inducible cytokine, subfamily B, member 8 (SCYB8);
29        chemokine (C-X-C motif) ligand 8 (CXCL8)
31 <400> SEQUENCE: 1
32 ctccataagg cacaaacttt cagagacagc agagcacaca agcttctagg acaagagcca 60
33 ggaagaaacc accggaagga accatctcac tgtgtgtaaa catgacttcc aagctggccg 120
34 tggctctctt ggcagccttc ctgatttctg cagctctgtg tgaaggtgca gttttgccaa 180
35 ggagtgctaa agaacttaga tgtcagtgca taaagacata ctccaaacct ttccacccca 240
36 aatttatcaa agaactgaga gtgattgaga gtggaccaca ctgcgccaac acagaaatta 300
37 ttgtaaagct ttctgatgga agagagctct gtctggaccc caaggaaaac tgggtgcaga 360
38 gggttgtgga gaagtttttg aagagggctg agaattcata aaaaaattca ttctctgtgg 420
39 tatccaagaa tcagtgaaga tgccagtgaa acttcaagca aatctacttc aacacttcat 480
40 gtattgtgtg ggtctgttgt agggttgcca gatgcaatac aagattcctg gttaaatttg 540
41 aatttcagta aacaatgaat agttttcat tgtaccatga aatatccaga acatacttat 600
42 atgtaaagta ttatttattt gaatctacaa aaaacaacaa ataattttta aatataagga 660
43 ttttcctaga tattgcacgg gagaatatac aaatagcaaa attgggccaa ggccaagag 720
44 aatatccgaa ctttaatttc aggaattgaa tgggtttgct agaatgtgat atttgaagca 780
45 tcacataaaa atgatgggac aataaatttt gccataaagt caaatttagc tggaaatcct 840
46 ggattttttt ctgttaaatc tggcaaccct agtctgctag ccaggatcca caagtccttg 900
47 ttccactgtg ccttggtttc tcctttattt ctaagtggaa aaagtattag ccaccatctt 960
48 acctcacagt gatgttgtga ggacatgtgg aagcacttta agttttttca tcataacata 1020
49 aattattttc aagtgtaact tattaaccta tttattattt atgtatttat ttaagcatca 1080
50 aatatttgtg caagaatttg gaaaaataga agatgaatca ttgattgaat agttataaag 1140
51 atgttatagt aaatttattt tattttagat attaaatgat gttttattag ataaatttca 1200
52 atcagggttt ttagattaaa caaacaaaca attgggtacc cagttaaatt ttcatttcag 1260
53 atatacaaca aataattttt tagtataagt acattattgt ttatctgaaa ttttaattga 1320
54 actaacaatc ctagtttgat actcccagtc ttgtcattgc cagctgtgtt ggtagtgctg 1380
```

RAW SEQUENCE LISTING   DATE: 03/29/2007
PATENT APPLICATION: US/09/694,758   TIME: 10:28:38

Input Set : **A:\-47-1.APP**
Output Set: **N:\CRF4\03292007\I694758.raw**

```
55 tgttgaatta cggaataatg agttagaact attaaaacag ccaaaactcc acagtcaata 1440
56 ttagtaattt cttgctggtt gaaacttgtt tattatgtac aaatagattc ttataatatt 1500
57 atttaaatga ctgcattttt aaatacaagg ctttatattt ttaactttaa aaaaaaccgg 1560
60 <210> SEQ ID NO: 2
61 <211> LENGTH: 1895
62 <212> TYPE: DNA
63 <213> ORGANISM: Homo sapiens
65 <220> FEATURE:
66 <223> OTHER INFORMATION: melanoma growth stimulatory activity (MGSA); GRO1
67       oncogene (GRO1, GROa); SCYB1; chemokine (C-X-C
68       motif) ligand 1 (CXCL1)
70 <400> SEQUENCE: 2
71 gctttccagc cccaaccatg cataaaaggg gttcgcggat ctcggagagc cacagagccc 60
72 gggccgcagg cacctcctcg ccagctcttc cgctcctctc acagccgcca gacccgcctg 120
73 ctgagcccca tggcccgcgc tgctctctcc gccgccccca gcaatccccg gctcctgcga 180
74 gtggcactgc tgctcctgct cctggtagcc gctggccggc gcgcagcagg tgggtaccgg 240
75 cgccctgggg tccccgggcc ggacgcggct ggggtaggca cccagcgccg acagcctcgc 300
76 tcagtcagtg agtctcttct tccctaggag cgtccgtggc cactgaactg cgctgccagt 360
77 gcttgcagac cctgcaggga attcacccca agaacatcca aagtgtgaac gtgaagtccc 420
78 ccggacccca ctgcgcccaa accgaagtca tgtaagtccc gccccgcgct gcctctgcca 480
79 ccgccggggt cccagaccct cctgctgccc caccctgtc cccagcccga cctcctgcct 540
80 cacgagattc ccttccctct gcagagccac actcaagaat gggcggaaag cttgcctcaa 600
81 tcctgcatcc cccatagtta agaaaatcat cgaaaagatg ctgaacaggt gagttatggt 660
82 ttccatgtac acaggcgact ggagccgttg gtcagaaata ctggcatgtg ccccctaaaa 720
83 ataaaatcag gaaaacccag gggttagttg aaggactaga aattgggatt attgttttca 780
84 caattaaggt ttcctttacg ataattactg ctctggtgcc agaggatatt cccaatgcct 840
85 ggcgtcccca ccctggttct tccttcgttc caatgaatgt aggtaaaact gccttcattt 900
86 gaggcccagt aggacaaaca gcaacaggtt ctggctgttt ttaatccaat agtacagtgg 960
87 agaccaccgc cccaccccac ccccattcct aaaagagcat cccaagctta gaggtccctg 1020
88 ccacacagca cagctgtcat aggcagtagc cacttggttg ccaggctggg gaaactgcat 1080
89 tcggagaact ctagaggctg gaggagcagg gcaggagaag agtgttgtgc aatcagcttt 1140
90 cccgagcacc tactcagggc acccattttc tcattgcagt gacaaatcca actgaccaga 1200
91 agggaggagg aagctcactg gtggctgttc ctgaaggagg ccctgccctt ataggaacag 1260
92 aagaggaaag agagacacag ctgcagaggc cacctggatt gtgcctaatg tgtttgagca 1320
93 tcgcttagga gaagtcttct atttatttat ttattcatta gttttgaaga ttctatgtta 1380
94 atattttagg tgtaaaataa ttaagggtat gattaactct acctgcacac tgtcctatta 1440
95 tattcattct ttttgaaatg tcaaccccaa gttagttcaa tctggattca tatttaattt 1500
96 gaaggtagaa tgtttttcaaa tgttctccag tcattatgtt aatatttctg aggagcctgc 1560
97 aacatgccag ccactgtgat agaggctggc ggatccaagc aaatggccaa tgagatcatt 1620
98 gtgaaggcag gggaatgtat gtgcacatct gttttgtaac tgtttagatg aatgtcagtt 1680
99 gttatttatt gaaatgattt cacagtgtgt ggtcaacatt tctcatgttg aaactttaag 1740
100 aactaaaatg ttctaaatat cccttggaca ttttatgtct ttcttgtaag gcatactgcc 1800
101 ttgtttaatg gtagttttac agtgtttctg cttagaaca aaggggctta attattgatg 1860
102 ttttcataga gaatataaaa ataaagcact tatag                              1895
105 <210> SEQ ID NO: 3
106 <211> LENGTH: 1065
107 <212> TYPE: DNA
108 <213> ORGANISM: Homo sapiens
110 <220> FEATURE:
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/694,758

DATE: 03/29/2007
TIME: 10:28:38

Input Set : A:\-47-1.APP
Output Set: N:\CRF4\03292007\I694758.raw

```
111 <223> OTHER INFORMATION: macrophage inflammatory protein 2 (MIP-2,
112       MIP-2alpha); GRO2 oncogene(GRO2, GROb); melanoma
113       growth stimulatory activity beta (MGSA-b); SCYB2;
114       chemokine (C-X-C motif) ligand 2 (CXCL2)
116 <400> SEQUENCE: 3
117 gaattaggca cgagagctcc ttgccagctc tcctcctcgc acagccgctc gaaccgcctg 60
118 ctgagcccca tggcccgcgc cacgctctcc gccgccccca gcaatccccg gctcctgcga 120
119 gtggcgctgc tgctcctgct cctggtggcc gccagccggc gcgcagcagg agcgcccctg 180
120 gccactgaac tgcgctgcca gtgcttgcag accctgcagg gaattcacct caagaacatc 240
121 caaagtgtga aggtgaagtc ccccggaccc cactgcgccc aaaccgaagt catagccaca 300
122 ctcaagaatg ggcagaaagc ttgtctcaac cccgcatcgc ccatggttaa gaaaatcatc 360
123 gaaaagatgc tgaaaaatgg caaatccaac tgaccagaag gaaggaggaa gcttattggt 420
124 ggctgttcct gaaggagccc tgccttacag gaacagaaga ggaaagagag acacagctgc 480
125 agaggccacc tggattgcgc ctaatgtgtt tgagcatcac ttaggagaag tcttctattt 540
126 atttattttat ttatttattt atttgtttgt tttagaagat tctatgttaa tattttatgt 600
127 gtaaaataag gttatgattg aatctacttg cacactctcc cattatattt attgtttatt 660
128 ttaggtcaaa cccaagttag ttcaatcctg attcatattt aatttgaaga tagaaggttt 720
129 gcagatattc tctagtcatt tgttaatatt tcttcgtgat gacatatcac atgtcagcca 780
130 ctgtgataga ggctgaggaa tccaagaaaa tggccagtaa gatcaatgtg acggcaggga 840
131 aatgtatgtg tgtctatttt gtaactgtaa agatgaatgt cagttgttat ttattgaaat 900
132 gatttcacag tgtgtggtca acatttctca tgttgaagct ttaagaacta aaatgttcta 960
133 aatatccctt ggacatttta tgtctttctt gtaagatact gccttgttta atgttaatta 1020
134 tgcagtgttt ccctctgtgt tagagcagag aggtttcgat attta 1065
137 <210> SEQ ID NO: 4
138 <211> LENGTH: 5191
139 <212> TYPE: DNA
140 <213> ORGANISM: Homo sapiens
142 <220> FEATURE:
143 <223> OTHER INFORMATION: monocyte-derived neutrophil chemotactic factor
144       (MDNCF); interleukin 8 (IL-8) precursor; small
145       inducible cytokine, subfamily B, member 8 (SCYB8);
146       chemokine (C-X-C motif) ligand 8 (CXCL8)
148 <400> SEQUENCE: 4
149 gaattcagta acccaggcat tattttatcc tcaagtctta ggttggttgg agaaagataa 60
150 caaaaagaaa catgattgtg cagaaacaga caaacctttt tggaaagcat ttgaaaatgg 120
151 cattcccctt ccacagtgtg ttcacagtgt gggcaaattc actgctctgt cgtactttct 180
152 gaaaatgaag aactgttaca ccaaggtgaa ttatttataa attatgtact tgcccagaag 240
153 cgaacagact tttactatca taagaaccct tccttggtgt gctctttatc tacagaatcc 300
154 aagacctttc aagaaaggtc ttggattctt ttcttcagga cactaggaca taaagccacc 360
155 tttttatgat ttgttgaaat ttctcactcc atccttttg ctgatgatca tgggtcctca 420
156 gaggtcagac ttggtgtcct tggataaaga gcatgaagca acagtggctg aaccagagtt 480
157 ggaacccaga tgctctttcc actaagcata caactttcca ttagataaca cctccctccc 540
158 accccaacca agcagctcca gtgcaccact ttctggagca taaacatacc ttaactttac 600
159 aacttgagtg gccttgaata ctgttcctat ctggaatgtg ctgttctctt tcatcttcct 660
160 ctattgaagc cctcctattc ctcaatgcct tgctccaact gcctttggaa gattctgctc 720
161 ttatgcctcc actggaatta atgtcttagt accacttgtc tattctgcta tatagtcagt 780
162 ccttacattg ctttcttctt ctgatagacc aaactcttta aggacaagta cctagtctta 840
163 tctatttcta gatcccccac attactcaga aagttactcc ataaatgttt gtggaactga 900
164 tttctatgtg aagacatgtg ccccttcact ctgttaacta gcattagaaa aacaaatctt 960
```

RAW SEQUENCE LISTING   DATE: 03/29/2007
PATENT APPLICATION: US/09/694,758   TIME: 10:28:38

Input Set : A:\-47-1.APP
Output Set: N:\CRF4\03292007\I694758.raw

```
165 ttgaaaagtt gtagtatgcc cctaagagca gtaacagttc ctagaaactc tctaaaatgc 1020
166 ttagaaaaag atttatttta aattacctcc ccaataaaat gattggctgg cttatcttca 1080
167 ccatcatgat agcatctgta attaactgaa aaaaaataat tatgccatta aaagaaaatc 1140
168 atccatgatc ttgttctaac acctgccact ctagtactat atctgtcaca tggtctatga 1200
169 taaagttatc tagaaataaa aaagcataca attgataatt caccaaattg tggagcttca 1260
170 gtattttaaa tgtatattaa aattaaatta ttttaaagat caaagaaaac tttcgtcata 1320
171 ctccgtattt gataaggaac aaataggaag tgtgatgact caggtttgcc ctgaggggat 1380
172 gggccatcag ttgcaaatcg tggaatttcc tctgacataa tgaaaagatg agggtgcata 1440
173 agttctctag tagggtgatg atataaaaag ccaccggagc actccataag gcacaaactt 1500
174 tcagagacag cagagcacac aagcttctag gacaagagcc aggaagaaac caccggaagg 1560
175 aaccattctc actgtgtgta aacatgactt ccaagctggc cgtggctctc ttggcagcct 1620
176 tcctgatttc tgcagctctg tgtgaaggta agcacatctt tctgacctac agcgttttcc 1680
177 tatgtctaaa tgtgatcctt agatagcaaa gctattcttg atgctttggt aacaaacatc 1740
178 cttttattc agaaacagaa tataatctta gcagtcaatt aatgttaaat tgaagattta 1800
179 gaaaaaacta tatataacac ttaggaaata taaggtttg atcaatatag atattctgct 1860
180 tttataattt ataccaggta gcatgcatat atttaacgta aataagtaat ttatagtatg 1920
181 tcctattgag aaccacggtt acctatatta tgtattaata ttgagttgag caaggtaact 1980
182 cagacaattc cactccttgt agtatttcat tgacaagcct cagatttgtc attaattcct 2040
183 gtctggttta aagataccct gattatagac caggcatgta taacttattt atatatttct 2100
184 gttaattctt tctgaaggca atttctatgc tggagagtct tagcttgcct actataaata 2160
185 acactgtggt atcacagagg attatgcaat attgaccaga taaaaatacc atgaagatgt 2220
186 tgatattgta caaaaagaac tctaactctt atataggaag ttgttcaatg ttgtcagtta 2280
187 tgactgtttt ttaaaacaaa gaactaactg aggtcaaggg ctaggagata ttcaggaatg 2340
188 agttcactag aaacatgatg ccttccatag tctccaaata atcatattgg aattagaagg 2400
189 aagtagctgg cagagctgtg cctgttgata aaatcaatcc ttaatcactt tttcccccaa 2460
190 caggtgcagt tttgccaagg agtgctaaag aacttagatg tcagtgcata aagacatact 2520
191 ccaaaccttt ccaccccaaa tttatcaaag aactgagagt gattgagagt ggaccacact 2580
192 gcgccaacac agaaattatg taagtacttt aaaaaagatt agatattttg ttttagcaaa 2640
193 cttaaaatta aggaaggtgg aaatatttag gaaagttcca ggtgttagga ttacagtagt 2700
194 aaatgaaaca aaacaaaata aaaatatttg tctacatgac atttaaatat ggtagcttcc 2760
195 acaactacta taaatgttat tttggactta gactttatgc ctgacttaag gaatcatgat 2820
196 ttgaatgcaa aaactaaata ttaatctgaa ccatttcttt cttatttcag tgtaaagctt 2880
197 tctgatggaa gagagctctg tctggacccc aaggaaaact gggtgcagag ggttgtggag 2940
198 aagttttga agaggtaagt tatatatttt ttaatttaaa tttttcattt atcctgagac 3000
199 atataatcca aagtcagcct ataaatttct ttctgttgct aaaaatcgtc attaggtatc 3060
200 tgcctttttg gttaaaaaaa aaggaatagc atcaatagtg agtttgttgt acttatgacc 3120
201 agaaagacca tacatagttt gcccaggaaa ttctgggttt aagcttgtgt cctatactct 3180
202 tagtaaagtt ctttgtcact cccagtagtg tcctatttta gatgataatt tctttgatct 3240
203 ccctatttat agttgagaat atagagcatt tctaacacat gaatgtcaaa gactatattg 3300
204 acttttcaag aaccctactt tccttcttat taaacatagc tcatctttat attttaatt 3360
205 ttattttagg gctgagaatt cataaaaaaa ttcattctct gtggtatcca agaatcagtg 3420
206 aagatgccag tgaaacttca agcaaatcta cttcaacact tcatgtattg tgtgggtctg 3480
207 ttgtagggtt gccagatgca atacaagatt cctggttaaa tttgaatttc agtaaacaat 3540
208 gaatagtttt tcattgtacc atgaaatatc cagaacatac ttatatgtaa agtattattt 3600
209 atttgaatct acaaaaaaca acaaataatt tttaaatata aggattttcc tagatattgc 3660
210 acgggagaat atacaaatag caaaattggg ccaagggcca agagaatatc cgaactttaa 3720
211 tttcaggaat tgaatgggtt tgctagaatg tgatatttga agcatcacat aaaaatgatg 3780
212 ggacaataaa ttttgccata aagtcaaatt tagctggaaa tcctggattt ttttctgtta 3840
213 aatctggcaa ccctagtctg ctagccagga tccacaagtc cttgttccac tgtgccttgg 3900
```

```
214 tttctccttt atttctaagt ggaaaaagta ttagccacca tcttacctca cagtgatgtt 3960
215 gtgaggacat gtggaagcac tttaagtttt ttcatcataa cataaattat tttcaagtgt 4020
216 aacttattaa cctatttatt atttatgtat ttatttaagc atcaaatatt tgtgcaagaa 4080
217 tttggaaaaa tagaagatga atcattgatt gaatagttat aaagatgtta tagtaaattt 4140
218 attttatttt agatattaaa tgatgtttta ttagataaat ttcaatcagg gttttttagat 4200
219 taaacaaaca aacaattggg tacccagtta aattttcatt tcagatatac aacaaataat 4260
220 ttttttagtat aagtacatta ttgtttatct gaaattttaa ttgaactaac aatcctagtt 4320
221 tgatactccc agtcttgtca ttgccagctg tgttggtagt gctgtgttga attacggaat 4380
222 aatgagttag aactattaaa acagccaaaa ctccacagtc aatattagta atttcttgct 4440
223 ggttgaaact tgtttattat gtacaaatag attcttataa tattatttaa atgactgcat 4500
224 ttttaaatac aaggctttat attttttaact ttagtgtttt tatgtgctct ccaaatttttt 4560
225 tttactgttt ctgattgtat ggaaatataa aagtaaatat gaaacattta aaatataatt 4620
226 tgttgtcaàa gtaatcaagt gtttgtcttt tttttagttt tagcttattg ggattctctt 4680
227 tgtttatatt taaaattata ctttgattta gaaaacataa atgcttcccc ttagcatttt 4740
228 gttatggaaa attacaaact tttatttta gaaaacagaa ctcctttcca gaaataggtt 4800
229 acaaacagta gtgtcctcca cagaatgttg gaaatgtttt caactcccca ctgtatacta 4860
230 tcttgctaat aagtctgtct tcagatttcg attaaccggt ttgtatgtct gtgcacttta 4920
231 gcatagctgg acattaaaga ggaaagagag tacatattat aagttgctta tcagtaactg 4980
232 aggagtaaaa ctgataaatg tgaggcaaag aagtttaaaa tatggttaaa gcctaagcat 5040
233 atttgcaaac aaatcaaaca atactctgag aagtaaaaac ataattattt aattaacaaa 5100
234 tttcagtgga taaatttttat aacaaattag acacagttga aaataaaatt agaaaactag 5160
235 aaaatagaac aaaagaaact tctggaattc a                                  5191
238 <210> SEQ ID NO: 5
239 <211> LENGTH: 905
240 <212> TYPE: DNA
241 <213> ORGANISM: Homo sapiens
243 <220> FEATURE:
244 <223> OTHER INFORMATION: interferon-induced transmembrane protein 2
245       (IFITM2); interferon inducible protein 1-8D
247 <400> SEQUENCE: 5
248 caacacaggg gcagtctcca ggacctccac accattaaca agatgagcct tgtgctccct 60
249 tgggctctag agaggaagcc cctctgagcc ctcagccccct ctttcctccc tctcctaaag 120
250 taatttgatc ctcaggaatt tgttctgccc tcatctggcc ctggccagct ctgcatttga 180
251 caaatgccag gaagaggaaa ctgttgagaa aacggaacta ctggggaaag ggagggctca 240
252 ctgagaacca tcccggtaac ccgaccgccg ctggtcacca tgaaccacat tgtgcaaacc 300
253 ttctctcctg tcaacagcgg ccagcctccc aactacgaga tgctcaagga ggagcaggaa 360
254 gtggctatgc tgggggggcc ccacaaccct gctcccccga cgtccaccgt gatccacatc 420
255 cgcagcgaga cctccgtgcc tgaccatgtc gtctggtccc tgttcaacac cctcttcatg 480
256 aacacctgct gcctgggctt catagcattc gcctactccg tgaagtctag ggacaggaag 540
257 atggttggcg acgtgaccgg ggcccaggcc tatgcctcca ccgccaagtg cctgaacatc 600
258 tgggccctga ttttgggcat cttcatgacc attctgctcg tcatcatccc agtgttggtc 660
259 gtccaggccc agcgatagat caggaggcat cattgaggcc aggagctctg cccgtgacct 720
260 gtatcccacg tactctatct tccattcctc gccctgcccc cagaggccag gagctctgcc 780
261 cttgacctgt attccactta ctccaccttc cattcctcgc cctgtcccca cagccgagtc 840
262 ctgcatcagc cctttatcct cacacgcttt tctacaatgg cattcaataa agtgtatatg 900
263 tttct                                                            905
266 <210> SEQ ID NO: 6
267 <211> LENGTH: 696
268 <212> TYPE: DNA
```

<210> 9
<211> 9721
<212> DNA
<213> Homo sapiens

<220>
<223> prointerleukin 1 beta (pro-IL-1beta);
      interleukin-1 beta precursor; catabolin

pls explain "N" locations

See error explanation on page 8.

<400> 9

```
agaaagaaag agagagagaa agaaaagaaa gaggaaggaa ggaaggaagg aagaaagaca 60
ggctctgagg aaggtggcag ttcctacaac gggagaacca gtggttaatt tgcaaagtgg 120
atcctgtgga ggcanncaga ggagtcccct aggccaccca gacagggctt ttagctatct 180
gcaggccaga caccaaattt caggagggct cagtgttagg aatggattat ggcttatcaa 240
attcacagga aactaacatg ttgaacagct tttagatttc ctgtggaaaa tataacttac 300
taaagatgga gttcttgtga ctgactcctg atatcaagat actgggagcc aaattaaaaa 360
tcagaaggct gcttggagag caagtccatg aaatgctctt tttcccacag tagaacctat 420
ttccctcgtg tctcaaatac ttgcacagag gctcactccc ttggataatg cagagcgagc 480
acgatacctg gcacatacta atttgaataa aatgctgtca aattcccatt cacccattca 540
agcagcaaac tctatctcac ctgaatgtac atgccaggca ctgtgctaga cttggctcaa 600
aaagatttca gtttcctgga ggaaccagga gggcaaggtt tcaactcagt gctataagaa 660
gtgttacagg ctggacacgg tggctcacgc ctgtaatccc aacatttggg aggccgaggc 720
gggcagatca caaggtcagg agatcgagac catcctggct aacatggtga aaccctgtct 780
ctactaaaaa tacaaaaaat tagccgggcg ttggcggcag gtgcctgtag tcccagctgc 840
tggggaggct gaggcaggag aatggtgtga acccgggagg cggaacttgc aggggccga 900
gatcgtgcca ctgcactcca gcctgggcga cagagtgaga ctctgtctca aaaaaaaaa 960
aaaagtgtta tgatgcagac ctgtcaaaga ggcaaggag ggtgttccta cactccaggc 1020
actgttcata acctggactc tcattcattc tacaaatgga gggctcccct gggcagatcc 1080
ctggagcagg cactttgctg gtgtctcggt taaagagaaa ctgataactc ttggtattac 1140
caagagatag agtctcagat ggatattctt acagaaacaa tattcccact tttcagagtt 1200
caccaaaaaa tcattttagg cagagctcat ctggcattga tctggttcat ccatgagatt 1260
ggctagggta acagcacctg gtcttgcagg gttgtgtgag cttatctcca gggttgcccc 1320
aactccgtca ggagcctgaa ccctgcatac cgtatgttct ctgccccagc caagaaaggt 1380
caattttctc ctcagaggct cctgcaattg acagagagct cccgaggcag agaacagcac 1440
ccaaggtaga gacccacacc ctcaatacag acagggaggg ctattggccc ttcattgtac 1500
ccatttatcc atctgtaagt gggaagattc ctaaacttaa gtacaaagaa gtgaatgaag 1560
aaaagtatgt gcatgtataa atctgtgtgt cttccacttt gtcccacata tactaaattt 1620
aaacattctt ctaacgtggg aaaatccagt attttaatgt ggacatcaac tgcacaacga 1680
ttgtcaggaa aacaatgcat atttgcatgg tgatacattt gcaaaatgtg tcatagtttg 1740
ctactccttg cccttccatg aaccagagaa ttatctcagt ttattagtcc cctcccctaa 1800
gaagcttcca ccaatactct tttccccttt cctttaactt gattgtgaaa tcaggtattc 1860
aacagagaaa tttctcagcc tcctacttct gcttttgaaa gctataaaaa cagcgaggga 1920
gaaactggca gataccaaac ctcttcgagg cacaaggcac aacaggctgc tctgggattc 1980
tcttcagcca atcttcattg ctcaagtatg actttaatct tccttacaac taggtgctaa 2040
gggagtctct ctgtctctct gcctctttgt gtgtatgcat attctctctc tctctctctt 2100
tctttctctg tctctcctct ccttcctctc tgcctcctct ctcagctttt tgcaaaaatg 2160
ccaggtgtaa tataatgctt atgactcggg aaatattctg ggaatggata ctgcttatct 2220
aacagctgac accctaaagg ttagtgtcaa agcctctgct ccagctctcc tagccaatac 2280
attgctagtt ggggtttggt ttagcaaatg ctttctcta gacccaaagg acttctcttt 2340
cacacattca ttcatttact cagagatcat ttctttgcat gactgccatg cactggatgc 2400
tgagagaaat cacacatgaa cgtagccgtc atggggaagt cactcatttt ctcctttta 2460
cacaggtgtc tgaagcagcc atggcagaag tacctgagct cgccagtgaa atgatggctt 2520
attacaggtc agtggagacg ctgagaccag taacatgagc aggtctcctc tttcaagagt 2580
agagtgttat ctgtgcttgg agaccagatt tttcccctaa attgcctctt tcagtggcaa 2640
acagggtgcc aagtaaatct gatttaaaga ctactttccc attacaagtc cctccagcct 2700
tgggacctgg aggctatcca gatgtgttgt tgcaagggct tcctgcagag gcaaatgggg 2760
agaaaagatt ccaagcccac aatacaagga atccctttgc aaagtgtggc ttggagggag 2820
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/29/2007
PATENT APPLICATION: US/09/694,758   TIME: 10:28:39

Input Set : A:\-47-1.APP
Output Set: N:\CRF4\03292007\I694758.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; N Pos. 135,136
Seq#:17; N Pos. 1240,1241,1242,1243,1244,1245,1246,1247,1248,1249,1250,1251
Seq#:17; N Pos. 1252,1253,1254,1255,1256,1257,1258,1259,1260,1261,1262,1263
Seq#:17; N Pos. 1264,1265,1266,1267,1268,1269,1270,1271,1272,1273,1274,1275
Seq#:17; N Pos. 1276,1277,1278,1279,1280,2111,2112,2113,2114,2115,2116,2117
Seq#:17; N Pos. 2118,2119,2120,2121,2122,2123,2124,2125,2126,2127,2128,2129
Seq#:17; N Pos. 2130,2131,2132,2133,2134,2135,2136,2822
Seq#:37; N Pos. 1415,1421,1422,1423,1424,1458
Seq#:38; N Pos. 689,739,744
Seq#:85; N Pos. 2255,2256
Seq#:86; N Pos. 27,46
Seq#:89; N Pos. 2509
Seq#:136; N Pos. 511

VARIABLE LOCATION SUMMARY   DATE: 03/29/2007
PATENT APPLICATION: US/09/694,758   TIME: 10:28:39

Input Set : A:\-47-1.APP
Output Set: N:\CRF4\03292007\I694758.raw

Use of n's or Xaa's(NEW RULES): Error Explanation: 2
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is **MANDATORY** if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which
residue n or Xaa represents.

Seq#:9; N Pos. 135,136
Seq#:17; N Pos. 1240,1241,1242,1243,1244,1245,1246,1247,1248,1249,1250,1251
Seq#:17; N Pos. 1252,1253,1254,1255,1256,1257,1258,1259,1260,1261,1262,1263
Seq#:17; N Pos. 1264,1265,1266,1267,1268,1269,1270,1271,1272,1273,1274,1275
Seq#:17; N Pos. 1276,1277,1278,1279,1280,2111,2112,2113,2114,2115,2116,2117
Seq#:17; N Pos. 2118,2119,2120,2121,2122,2123,2124,2125,2126,2127,2128,2129
Seq#:17; N Pos. 2130,2131,2132,2133,2134,2135,2136,2822
Seq#:37; N Pos. 1415,1421,1422,1423,1424,1458
Seq#:38; N Pos. 689,739,744
Seq#:85; N Pos. 2255,2256
Seq#:86; N Pos. 27,46
Seq#:89; N Pos. 2509
Seq#:136; N Pos. 511

VERIFICATION SUMMARY   DATE: 03/29/2007
PATENT APPLICATION: **US/09/694,758**   ·   TIME: 10:28:39

Input Set : **A:\-47-1.APP**
Output Set: **N:\CRF4\03292007\I694758.raw**

```
L:355 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:9
L:355 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:9
L:355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:120
L:868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:1200
M:341 Repeated in SeqNo=17
L:1833 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:37
L:1833 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:37
L:1833 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:1380
M:341 Repeated in SeqNo=37
L:1866 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:38
L:1866 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:38
L:1866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:660
M:341 Repeated in SeqNo=38
L:4402 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:85
L:4402 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:85
L:4402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:2220
L:4417 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:86
L:4417 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:86
L:4417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
L:4800 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:89
L:4800 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:89
L:4800 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:2460
L:7627 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:136 after pos.:480
L:7926 M:259 W: Allowed number of lines exceeded, <223> Other Information:
```